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☐ 1. Document ID: US 20030049443 A1 WO 200058536 A1 AU 200033282 A EP 1191131
A1 KR 2001110680 A CN 1343269 A JP 2000608813 X US 6489026 B1

L1: Entry 1 of 1

File: DWPI

Mar 13, 2003

DERWENT-ACC-NO: 2000-664931

DERWENT-WEEK: 200321

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TITLE: Fine and high crystalline carbon fiber for use as a filler material for various batteries, ceramics, and resins, has a fiber diameter of 1 micron or less and an Lc of 40 nm or less, and it contains boron

INVENTOR: ENDO, M; NISHIMURA, K

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SHOWA DENKO KK

SHOW

PRIORITY-DATA: 1999JP-0307867 (October 29, 1999), 1999JP-0081260 (March 25, 1999),
1999US-145266P (July 26, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030049443 A1	March 13, 2003		000	D02G003/00
<u>WO 200058536 A1</u>	October 5, 2000	J	039	D01F009/127
AU 200033282 A	October 16, 2000		000	D01F009/127
EP 1191131 A1	March 27, 2002	E	000	D01F009/127
KR 2001110680 A	December 13, 2001		000	H01M004/96
CN 1343269 A	April 3, 2002		000	D01F009/127
JP 2000608813 X	July 9, 2002		000	D01F009/127
US 6489026 B1	December 3, 2002		000	D01F009/12

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU
ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE
SL SZ TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO
SE SI

APPLICATION-DATA:

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PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030049443A1	July 26, 1999	1999US-145266P	Provisional
US20030049443A1	March 24, 2000	2000WO-JP01835	Div ex
US20030049443A1	September 21, 2001	2001US-0937079	Div ex
US20030049443A1	October 11, 2002	2002US-0268707	
US20030049443A1		US 6489026	Div ex
WO 200058536A1	March 24, 2000	2000WO-JP01835	
AU 200033282A	March 24, 2000	2000AU-0033282	
AU 200033282A		WO 200058536	Based on
EP 1191131A1	March 24, 2000	2000EP-0911361	
EP 1191131A1	March 24, 2000	2000WO-JP01835	
EP 1191131A1		WO 200058536	Based on
KR2001110680A	September 24, 2001	2001KR-0712124	
CN 1343269A	March 24, 2000	2000CN-0804720	
JP2000608813X	March 24, 2000	2000JP-0608813	
JP2000608813X	March 24, 2000	2000WO-JP01835	
JP2000608813X		WO 200058536	Based on
US 6489026B1	July 26, 1999	1999US-145266P	Provisional
US 6489026B1	March 24, 2000	2000WO-JP01835	
US 6489026B1	September 21, 2001	2001US-0937079	
US 6489026B1		WO 200058536	Based on

INT-CL (IPC): B32 B 9/00; D01 F 9/12; D01 F 9/127; D02 G 3/00; H01 M 4/02; H01 M 4/58; H01 M 4/96

ABSTRACTED-PUB-NO: WO 200058536A
BASIC-ABSTRACT:

NOVELTY - A fine and high crystalline carbon fiber having a fiber diameter of 1 μ m or less and an Lc of 40 nm or less, is for use as a filler material for various batteries, ceramics, resins, etc.

DETAILED DESCRIPTION - The carbon fiber has a distance between layer faces d002 of 0.335 to 0.342 nm as measured by the X-ray diffraction method and has dimensions that satisfy the following relationship.

d002 less than 0.3444 - 0.0028 (log phi)

Lc = length along the c axis ;

phi = diameter of a carbon fiber.

USE - The carbon fiber is used as a filler for electrodes of batteries, for resins, ceramics, etc..

ADVANTAGE - The carbon fiber contained in electrodes of batteries improves their electric and thermal conductivity. The carbon fiber imparts strength to ceramics, resins, metals, etc.

CHOSEN-DRAWING: Dwg.0/2

TITLE-TERMS: FINE HIGH CRYSTAL CARBON FILL MATERIAL VARIOUS BATTERY CERAMIC RESIN
DIAMETER MICRON LESS LC LESS CONTAIN BORON

DERWENT-CLASS: E36 F01 L03 P73 X16

CPI-CODES: E31-N04D; E31-Q01; F01-D09A; L03-E01B3;

EPI-CODES: X16-E09;

CHEMICAL-CODES:

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Chemical Indexing M3 *01*

Fragmentation Code

C106 C730 C810 M411 M730 M782 M904 M905 Q130 Q323

Q453 Q454 Q606 R042

Specific Compounds

05086K 05086Q 05086M

Chemical Indexing M3 *02*

Fragmentation Code

B105 B720 B744 B780 B803 B833 C106 C800 C802 C803

C805 C806 C807 M411 M730 M782 M904 M905 Q130 Q323

Q453 Q454 Q606 R042

Specific Compounds

06458K 06458Q 06458M 20581K 20581Q 20581M

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-201394

Non-CPI Secondary Accession Numbers: N2000-492816

Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1

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